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BORREINGER INGELHEIM PHARDA GIBH 4 CO. KO  ALTH. Mammann, Heinz  EIngarg CD Patents  - 8. Juni 2009  ADDICARTS or agent's file reference  FOR FURTHER ACTION  See paragraphs 1 and 4 below  International application No.  PCT/EP2009/053907  Applicant  BOEHRINGER INGELHEIM INTERNATIONAL GIMBH  1. X The applicar's nereby notified that the international search report and the written opinion of the international Searching Authority, nave been established and are transmitted herewith.  Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):  When? The time limit for illing such amendments is normally two months from the date of transmittal of the International Search Hepot.  Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascinille No.: (41-22) 338 82:70  For more detailed instructions, see the notes on the accompanying sheet.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified to international Search report will be established and so son as a decision in the decision thereon to the designated Offices.    Whith regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified to international search report will be established and so son as a decision is made.    With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified to enter a publication of the international publication will be published by the International Bureau. If the protest together with the decision here on has been transmitted to the International Bureau to the protest; the applicant will be notified as soon as a decision is made.    A Reminders			Case:	
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### Applicant's or agent's file reference  ### PO1-2363/WO    FOR FURTHER ACTION   See paragraphs 1 and 4 below	-			
Date of mailing   (day/month/year)   08/06/2009	CESCANNT	THE RESERVE OF THE PROPERTY OF	<u> </u>	
### Applicant's or agent's file reference ### POI - 2363 / WO ### International application No. ### POT / EP2009 / 053907 ### Applicant ### BOEHRINGER INGELHEIM INTERNATIONAL GMBH  1. *** The applicant is entitled, if he so wishes, to amend the claims of the international Application (see Rule 46): ### When? The time limit for filing such amendments is normally two months from the date of transmittal of the international Search Report. #### When? The time limit for filing such amendments is normally two months from the date of transmittal of the international Search Report. #### When? The time limit for filing such amendments is normally two months from the date of transmittal of the international Search Report. #### When? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 38,82,70 #### For more detailed instructions, see the notes on the accompanying sheet.  2. ** The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(3) to that effect and the written opinion of the International Searching Authority are transmitted herewith.  3. ** With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:    the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.    no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.  4. ** Reminders**  Shortly after the expiration of 18 months from the priority date, the international application will be published by the international Bureau it comments on an informal basis on the written opinion of the linemational Searching Authority to the international Bureau it comments on an informal basis on the written opinion of the linemational Bureau in the mation of	GESCHALL	A Reserve	(POT Hule 44.1)	<del></del>
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See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the <i>PCT Applicant's Guide</i> , Volume II, National Chapters and the WIPO Internet site.	Authority nave been establi  Filing of amendments and The applicant is entitled, if I When? The time limit for International Set Where? Directly to the I 1211 Geneva 2 For more detailed instruction of 17(2)(a) to that effect and I with regard to the protest of the protest together wapplicant's request to incompletion of 18 International Bureau. If the application, or of the priority claim before the completion of the tech The applicant may submit communiternational Bureau. The International Bureau. The International preliminary examinate public but not before the expiration was the protest together water application, or of the priority claim before the completion of the tech The applicant may submit communiternational Bureau. The International preliminary examinate public but not before the expiration must be filed if the adate (in some Offices even later) acts for entry into the national phenomenation in the protest of other designated Offices the Annex to Form PCT/IB/3	shed and are transmitted herew distatement under Article 19: the so wishes, to amend the clair or filing such amendments is not earch Report.  International Bureau of WIPO, 3-20, Switzerland, Fascimile No.: (cuctions, see the notes on the additional search and the written opinion of the litt against payment of (an) additivith the decision thereon has been forward the texts of both the promade yet on the protest; the applicant wishes to avoid or postponent, must reach the International Entired preparations for international Bureau will send a copy of a copy of the protest of some prot	ith.  In sof the International Application (see Rule 46): Imally two months from the date of transmittal of the  It chemin des Colombettes II - 22) 338.82.70 In report will be established and that the declaration under international Searching Authority are transmitted herewith.  In report will be established and that the declaration under international Searching Authority are transmitted herewith.  In report will be established and that the declaration under international Searching Authority are transmitted herewith.  In report will be established and that the declaration under international Searching Authority are transmitted to the International Bureau together with the international the decision thereon to the designated Offices.  In publication in the international Bureau together with the international will be notified as soon as a decision is made.  In the international application will be published by the expublication, a notice of withdrawal of the international Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, and publication.  In written opinion of the International Searching Authority to the of such comments to all designated Offices unless an established. These comments would also be made available to ority date.  In report will apply even if no demand is filed within 19  In policable time limits, Office by Office, see the PCT Applicant's	

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Federico Bonomelli

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
   "Claims 1–10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1*bis*(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43*bis*.1(c)).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the *PCT Applicant's Guide*, Volume II.

## **PATENT COOPERATION TREATY**

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	agent's file reference	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 as, where applicable, item 5 below.
P01-2363/ International a		International filing date (day/mon		(Earliest) Priority Date (day/month/year)
PCT/EP200	9/053907	01/04/2009	9	02/04/2008
Applicant				
BOEHRINGE	R INGELHEIM INTE	RNATIONAL GMBH		
		prepared by this International Sear ansmitted to the International Burea		rity and is transmitted to the applicant
This internati		of a total of <u>5</u> she or a copy of each prior art document		report.
a. With  b  c  2  3  4. With regality regalit	x the international a translation of the of a translation ful.  This international search authorized by or notified.  With regard to any nucle.  Certain claims were four things of invention is laced to the title, the text is approved as such text has been establicated.	to this Authority under Rule 91 (Rule to this Authority under Rule 91 (Rule to the and/or amino acid sequence and unsearchable (See Box No. II) cking (see Box No III)  ubmitted by the applicant shed by this Authority to read as fol HYDRO-PYRAZOLO [3,4-D]	tional search into account le 43.6 bis(a)) ce disclosed i	, which is the language (Rules 12.3(a) and 23.1(b)) the rectification of an obvious mistake
5. With reg	the text has been establi			ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority
6. With reg	ard to the drawings,			
a. the f	igure of the <b>drawings</b> to be	published with the abstract is Figure	e No	<del></del>
	as suggested by			
		nis Authority, because the applicant		
		nis Authority, because this figure be	tter characte	rizes the invention
b	none of the figures is to	be published with the abstract		

#### Box No. IV Text of the abstract (Continuation of Item 5 of the first sheet)

The invention relates to novel 1,6-disubstituted pyrazolopyrimidinones

with

<u>Hc</u> is a mono-, bi- or tricyclic heterocyclyl group, the ring members of which are carbon atoms and at least 1, preferably 1, 2 or 3, heteroatom(s), which are selected from the group of nitrogen, oxygen and sulphur, which is in the form of  $-S(O)_r$  - with r being 0, 1 or 2, and

- said heterocyclyl group is or comprises 1 non-aromatic, saturated, or partly unsaturated monocyclic ring which comprises at least 1 heteroatom as ring member and
- said heterocyclyl group is bound to the scaffold by said 1 nonaromatic, saturated, or partly unsaturated monocyclic ring which comprises at least 1 heteroatom as ring member.

According to one aspect of the invention the new compounds are for the manufacture of medicaments, in particular medicaments for the treatment of conditions concerning deficits in perception, concentration, learning or memory. The new compounds are also for the manufacture of medicaments for the treatment of Alzheimer's disease.

#### INTERNATIONAL SEARCH REPORT

International application No PCT/EP2009/053907

a. classification of subject matter INV. C07D487/04 A61K31/519

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  $C\,07\,D$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/099210 A (BAYER HEALTHCARE AG [DE]; HENDRIX MARTIN [DE]; BAERFACKER LARS [DE]; E) 18 November 2004 (2004-11-18) cited in the application page 56 - page 57; claim 1 page 14, line 10 - page 15, line 9	1,2,14, 19-27
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X Further documents are listed in the continuation of Box C.	X See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filling date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filling date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>			
Date of the actual completion of the international search  26 May 2009	Date of mailing of the international search report $08/06/2009$			
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Fink, Dieter			

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International application No
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X	WO 2004/096811 A (PFIZER PROD INC [US]; BELL ANDREW SIMON [GB]; DENINNO MICHAEL PAUL [US) 11 November 2004 (2004-11-11) cited_in the application		1,2,12, 19,20, 25-27
Υ	page 55 — page 56; claim 1 page 55 — page 56; claim 1 page 59 — page 60; claims 5—8		1–28
Α	WO 2004/026876 A (BAYER HEALTHCARE AG [DE]; HENDRIX MARTIN [DE]; BOESS FRANK-GERHARD [DE) 1 April 2004 (2004-04-01) the whole document		1–28
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